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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/494,199 | 01/28/2000 | Ramin Rezaiifar | PA000090CIP | 3141 |

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| EXAMINER |
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PHILPOTT, JUSTIN M

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| ART UNIT | PAPER NUMBER |
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2616

DATE MAILED: 04/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/494,199

Applicant(s)

REZAIIFAR ET AL.

Examiner

Justin M. Philpott

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 February 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1,2 and 5-26 is/are allowed.
- 6) ☒ Claim(s) 3,4 and 27-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see pages 11-18 (and specifically, pages 11-13) of the Appeal Brief, filed February 21, 2006, with respect to claims 1-29 have been fully considered and are persuasive. The previous rejection of claims 1-29 has been withdrawn, and prosecution is hereby reopened.
2. With respect to claims 3, 4 and 27-29, a new rejection is made in the following office action in view of newly discovered prior art.

Claim Objections

3. Claims 3 and 27 are objected to because of the following informalities: "PPP" (claim 3, line 5) should be changed to "point-to-point (PPP)", "PDSN" (claim 3, line 6) should be changed to "packet data switched network (PDSN)", and "radio-access-network-PDSN" (claim 27, line 6) should be changed to "radio-access-network/packet-data-switched network (PDSN)".
Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an

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international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 3 and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,765,909 to Sen et al.

Regarding claim 3, Sen teaches maintaining a reduced entry PPP connection table (e.g., see col. 6, lines 30-38 regarding "connection number table" for the "PPP session" comprising new packet data flow ID) that includes radio access network (RAN) (e.g., see col. 4, lines 50-61 regarding the system comprising "Radio Access Network" communications) packet data switched network (PDSN) (e.g., see col. 6, lines 39-45 regarding the system including "PDSN" communications) interface (RPI) communication pipe identifiers (e.g., see col. 6, lines 30-45 regarding connection numbers; see also abstract and col. 3, line 15 – col. 7, line 3).

Regarding claim 4, Sen teaches the reduced entries (e.g., new packet data flow ID) do not include Service Request Identifiers (e.g., see col. 6, lines 30-38).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,774,805 to Zicker.

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Regarding claim 27, Zicker teaches updating dormant network connection information associated with a mobile station (e.g., see col. 8, line 64 – col. 9, line 17 regarding “Dormant channel list 70 is a data list stored in memory 46 (see FIG. 4) and updated from time to time”), wherein the dormant network connection information (e.g., “dormant channel list 70”) is information relating to a connection that is not being used to transmit traffic channel data (e.g., see col. 8, line 64 – col. 9, line 17 regarding “List 70 identifies the channels ... found to be dormant or otherwise currently unused”). Further, since Zicker teaches the above-mentioned functions are “tasks” performed by devices, which is known in the art to comprise a processor-readable medium and a processor having instructions, they are implicitly performed by a processor-readable-medium accessible by a processor and containing a set of executable instructions executable by the processor. Finally, while Zucker may not specifically disclose the processor is coupled to a radio-access-network/PDSN channel interface, Examiner takes official notice that it is well known in the art of mobile communications for a mobile communication device to be coupled to a radio-access-network/PDSN channel interface. Thus, at the time of the invention it would have been obvious to one of ordinary skill in the art to perform the processes of Zicker in a device coupled to a radio-access-network/PDSN channel interface since it is well known in the art of mobile communications for a mobile communication device to be coupled to a radio-access-network/PDSN channel interface.

Regarding claim 28, Zicker teaches the dormant network connection information (e.g., “dormant channel list 70”) does not include service reference identifiers (e.g., see col. 8, line 64 – col. 9, line 17).

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Regarding claim 29, while Zicker may not specifically disclose the invention comprises first and second infrastructure elements that are packet data service nodes, in a radio-access-network/PDSN channel interface such as discussed above regarding claim 27, infrastructure elements implicitly include PDSN nodes. Thus, at the time of the invention it would have been obvious to one of ordinary skill in the art to utilize PDSN nodes as first and second infrastructure elements when a device is coupled to a radio-access-network/PDSN channel interface as discussed above regarding claim 27.

Allowable Subject Matter

8. Claims 1, 2 and 5-21 are allowed.

9. The following is an examiner's statement of reasons for allowance: independent claims 1, 5, 9, 15 and 21 each recite particular methods or devices which include transmitting through a network a message that includes a number of dormant network connections associated with a mobile station and a reduced list of identifiers associated with the dormant network connections, wherein such particular methods or devices were not found in a search of the prior art. In particular, applicant's arguments at pages 11-13 of the Appeal Brief, filed February 21, 2006 were persuasive in overcoming prior art rejections and distinguishing claims 1, 5, 9, 15 and 21 from the prior art. Claims 2, 6-8, 10-14, 16-20 and 22-26 depend upon one of claims 1, 5, 9, 15 and 21, and are therefore allowed for the same reasons discussed above regarding claims 1, 5, 9, 15 and 21.

10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin M. Philpott whose telephone number is 571.272.3162. The examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571.272.3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Justin M. Philpott


CHI PHAM
SUPERVISORY PATENT EXAMINER
4/26/02